

KOSOVA, A.A.

Computed weights of some forms of zooplankton in the lower Volga
Delta. Trudy Astr. zap. no.5:151-159 '61. (MIRA 16:8)
(Volga Delta--Zooplankton)

FORMANEK, Gustav; KOSOVA, Hilda; CARNOGURSKA, Izabela

Condition of renal function in suppurative diseases of the urinary tract
in 15 children. Cesk. pediat. 17 no.7/8:691-693 Ag '62.

1. I. detska klinika Detskej fakultnej nemocnice UK v Bratislave,
prednosta doc. dr. I. Jakubcova.

(URINARY TRACT INFECTION) (KIDNEY FUNCTION TESTS)
(PYELONEPHRITIS)

HELLER, Jiri; KOSOVA, Eva

Some comments on the function of the neurohypophysis. Cas. lek.
cesk. 101 no.21:654-656 My '62.

1. Oddeleni fyziologie detskeho veku, vedouci doc. dr J. Sedlacek,
Fyziologickeho ustavu fakulty vseobecneho lekarstvi KU v Praze,
prednosta prof. dr. Fr. Karasek, DrSc.
(PITUITARY GLAND POSTERIOR physiol)
(VASOPRESSIN physiol)

KOSOVA, K.D., red.

[Collection of papers on the acclimatization of freshwater fauna] Sbornik po akklimatizatsii vodnykh organizmov. Moskva, Izd-vo "Rybnoe khoziasitvo," 1963. 71 p.
(SIRA 17:10)

1. Tsentral'naya proizvodstvenno-akklimatizatsionnaya stantsiya.

SAKUN, Ol'ga Fedorovna; BUTSKAYA, Nataliya Anatol'yevna;
KOSOVA, K.D., red.

[Determination of the stage of maturity and the study of
sex cycles in fishes] Opredelenie stadii zrelosti i izu-
chenie polovykh tsiklov ryb. Moskva, TSentr. laboratoria
po vosproizvodstvu rybnykh zapasov, 1963. 34 p.
(MIRA 17:9)

DRAPATSKIY, M.Ya.; TRET'YAKOV, G.S.; KOSOVA, K.D., red.

[Seiner "Chuguev"] Seiner "Chuguov." Moskva, Izd-vo
"Pishchevaia promyshlennost'," 1964. 23

(MIRA 17:6)

KOSOVA, K. P.

RETROVA, T.R.: KOSOVA, K.P.

Eruption of pulmonary tuberculoma into the aorta with final
miliarization [with summary in French]. Probl.tub. 35 no.4:116-118
'57. (MLRA 10:8)

1. Iz kafedry fakul'tetskoy terapii (i.o. zav. - dotsent A.A.
Gol'denshteyn) i kafedry patologicheskoy anatomii (zav. - dotsent
G.P.Milash) Kubanskogo meditsinskogo instituta
(LUNG DISEASES, compl.
tuberculoma, eruption into aorta & terminal
miliarization (Rus))

KOSOVA, L. K.

Thermodynamic study of copolymer solutions. I. Thermodynamic study of solutions of butadiene-styrene copolymers. A. A. Tager, L. K. Kosova, D. Yu. Karlinkaya, and I. A. Yurina (Ar. M. Gorkiy Ural State Univ., Sverdlovsk). *Kolloid. Zhur.* 17, 313-23 (1955); cf. C.A. 47, 4896a. The integral heats Q of soln. of copolymers in C_6H_6 were equal to those of swelling, i.e. the heats of dilu. were very small. The Q was immeasurably small for copolymers contg. 80 or 70 wt. % styrene; it was pos. when the fraction x of styrene was greater and increased with x , and was more neg. the smaller was x between $x = 10$ and 50%; e.g. at $x = 10\%$, $Q = -1.18$ cal. for 1 g. copolymer. Sorption of C_6H_6 vapor by copolymers, up to the relative vapor pressure p/p_0 of 0.5, was greater the smaller was x ; at higher p/p_0 some curves of α vs. p/p_0 crossed. Computation of these data showed that penetration of C_6H_6 into copolymers with $x < 90\%$ was assocd. with an increase in entropy S (because of the flexibility of the polymer chains) while S of the rigid copolymer with $x = 90\%$ decreased, and that copolymers with a small x dissolved in C_6H_6 as a result of diffusion while those with a large x dissolved because of an interaction between copolymer chains and C_6H_6 .

I. I. Blkerman

(3)

KOSOVA, L. K.

Thermodynamic study of copolymer solutions of butadiene and acrylonitrile. A. A. Tager and L. K. Kosova (A. A. Tager, Gorkii State Univ., Sverdlovsk, 225000, USSR; J. Polym. Sci. Polym. Chem. Ed., 1978, 16, 281-2; 1979, 17, 391-2; 1980, 18, 181-2). Copolymers contg. 18 (I), 26 (II), and 40 wt. % (III) acrylonitrile, and polyacrylonitrile (IV) were studied. The heat of soln. in C_6H_6 was zero for I and IV, 0.45 for II, and 0.70 cal./g. polymer for III. The sorption of C_6H_6 vapor increased in the series IV < III < I < II; e.g. at relative vapor pressure of 0.5, 1 g. of II took up 0.3 g. C_6H_6 . From these data the enthalpy, free energy, and entropy of the system were calcd. As penetration of C_6H_6 into the polymers was speeded, with an entropy increase, the polymer chains must be flexible. The affinity of C_6H_6 for the polymers was detd. by this flexibility and the ratio of the polarities of polymer and solvent. The temp. below which the "glassy state" appeared was -45 to -55° for I, -38 to -45° for II, and -20 to -27° for III. The heat of soln. of IV in $HCONMe_2$ was 5.2 cal./g. polymer. J. J. Bikerman

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NO

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KOSOVA, L.V.

KOSOVA, L.V. (Kiyev)

Toxicological and hygienic aspects of the new insecticide chlorindan
Gig.truda i prof.zab. 1 no.3:34-39 My-Je '57. (MIRA 11:1)

1. Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny truda i
profzabolevaniy i Kuybyshevskiy meditsinskiy institut.
(CHLORDAN--PHYSIOLOGICAL EFFECT)

KOSOVA, I. V.

Hygienic rating of chlorindan, a new insecticide. Vrach.delo no.5:
515-517 My '57. (MIRA 10:8)

1. Toksikologicheskaya laboratoriya Kiyevskogo instituta gigieny
truda i professional'nykh zabolevaniy
(INSECTICIDES)

KOSOVA, L. V., Cand Med Sci -- (diss) ^{the} "Data on ^Rtoxicology of the new
insecticide chlorindane and its hygienic standardization." Kuybyshev,
1958. 19 pp (Kuybyshev State Med Inst), 200 copies (KL, 16-58, 123)

-104-

KOSOVA, L.V. (Kiyev)

Mechanism of the action of chlordan, a new insecticide.
Fiziol.zhur. [Ukr.] 5 no.1:127-129 Ja-F '59. (MIRA 12:5)
(CHLORDAN)

FA 151782

USSR/Medicine - Tuberculosis
Vitamin D₂

Jul/Aug 49

"Treatment of Tubercular Lupus Vulgaris of the Upper Respiratory Passages With Vitamin D₂," N. Ya. Kosova, IOR Unit, Inst of Tuberculosis of the Skin, Min of Pub Health RSFSR, 6 pp

"Vest Oto-Rino-Laringol" No 4

An alcohol solution of Vitamin D₂ proved very effective as a general therapeutic agent in treating tubercular lupus vulgaris of upper respiratory passages. Generally, it affects the mucous membrane of these passages more quickly than the skin--first the area of infection in the soft palate,

151782

USSR/Medicine - Tuberculosis (Contd) Jul/Aug 49

tonsils, and posterior walls of the glottis, then the nose and larynx. In histological examinations at various intervals after clinical treatment, complete disappearance of specific infiltration and formation of scar tissue were observed in 11 of 16 cases. Dir, IOR Unit: Prof A. N. Voznesenskiy, Consultant and Sci Supervisor. Dir, Inst of Tuberculosis of the Skin: Prof N. N. Grinchar (deceased). Dep Dir, Sci Sec: Prof N. L. Rossiyskiy.

151782

KOSOVA, N.Ya.

Results of the treatment of lupus tuberculosis of the upper respiratory tract with phthivazid. Vest. oto-rin. 16 no.5:64-67 5-0 '54.
(MLRA 7:12)

1. Iz Nauchno-issledovatel'skogo instituta kozhnogo tuberkuleza
Ministerstva zdravookhraneniya RSFSR, Moskva.

(LUPUS,

upper resp. tract, ther., isoniazid)

(RESPIRATORY TRACT, diseases,

lupus of upper resp. tract, ther., isoniazid)

(NICOTINIC ACID ISOMERS, therapeutic use

isoniazid in lupus of upper resp. tract)

KOSOVA, N. Ya.

KOSOVA, N. Ya. - "Using vitamin D₂ to treat patients with lupus tuberculosis of the upper respiratory tracts and mouth area". Moscow, 1955. Min Health RSFSR. Moscow Medical Stomatological Inst. (Dissertation for the degree of Candidate Medical Sciences).

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow

~~KOSOVA, N.Y.~~ kand.med.nauk; PERESYPKINA, M.I.

Use of phthivazid for the prevention of recurrences of lupus tuberculosis. Probl.tub. 36 no.7:39-43 '58. (MIRA 12:8)

1. Iz bronkho-laringologicheskogo otdeleniya (rukovoditel' - prof.A.N.Voznesenskiy) Moskovskogo gosudarstvennogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdравo-okhraneniya RSFSR (dir. - kand.med.nauk V.F.Chernyshev, zam. dir.po nauchnoy chasti - prof.D.D.Aseyev),
(LUPUS) (NICOTINIC ACID)

GAVRILENKO, V.S., kand. med. nauk; KOSOVA, M.Ya., kand. med. nauk;
LIFSHITS, F.B., kand. med. nauk

Experience with the use of ethoxyd in the compound treatment
of pulmonary tuberculosis. Probl. tub. 41 no.5:45-49 '63.
(MIRA 17:1)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta
tuberkuleza (dir. - kand. med. nauk Mochalova, T.P.,
zamestitel' direktora po nauchnoy chasti - prof. D.D. Aseyev)
Ministerstva zdoravookhraneniya RSFSR.

KOSOVA N.Ya., kand. med. nauk; SHULAYEVA, Z.A., kand. med. nauk

X-ray and bronchoscopic parallels in the clinical aspects and diagnosis of tracheal and bronchial tuberculosis. Probl. tub. 42 no.1:22-28 '64. (MIRA 17:8)

1. Bronkhologicheskoye otdeleniye (zav. - prof. A.N. Voznesenskiy) i rentgenologicheskoye otdeleniye (zav. - kand. med. nauk Ye.Ya. Oblogina) Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - kand. med. nauk T.P. Mochalova, zamestitel' direktora po nauchnoy chasti - prof. D.D. Aseyev) Ministerstva zdravookhraneniya RSFSR.

KOSOVA, N.Ya.; LIFSHITS, F.B.; SIDORKINA, Ye.S.

Bronchopulmonary disorders in adolescents in primary tuberculosis.
Probl. tub. 42 no.10:41-46 '64. (MIRA 18:11)

1. Moskovskiy nauchno-issledovatel'skiy institut tuberkuleza
(direktor - kand. med. nauk T.P. Mochalova; zamestitel' direktor
po nauchnoy chasti - prof. D.D. Aseyev) Ministerstva
zdravookhraneniya RSFSR.

CH

11E

Fresh distillery slops in rations for dairy cows. O. N. Kosova and M. A. Laptev. *Problems Animal Husbandry* (U. S. S. R.) 7, No. 1, 85-94(1938).—Fresh distillery slops can be used as feed for dairy cows. The favorable effect of fresh slops on the production of milk is attributed to the presence of whole proteins, of easily digestible nutritive substances in soln. and to the swelling and partial destruction of cellulose. Owing to the considerable acidity of the slops and to the lack of Ca it is necessary to add CaCO_3 to them. 8 references. W. R. Henn

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

670

YOSOVA, O. N.

YOSOVA, O. N.: "Raising Kholmogory dairy cattle on various types of fodder." All-Union Sci Res Inst of Animal Husbandry. Moscow, 1956 (Dissertation for the Degree of Candidate in Agricultural Sciences)

So: Knizhnaya Letopis', No 17, 1956

USSR / Farm Animals. Cattle. 2

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7389

Author : Bondarenko, G. A.; Kosova, O. N.
Inst : All-Union Scientific Research Institute of
Animal Husbandry

Title : The Effect of Feeds Rich on Easily Assimila-
ted Carbohydrates upon the Milk Production
of Cows

Orig Pub : Byul. nauchno-tekhn. inform. Vses. n.-1. in-t
zhivotnovodstva, 1957, No 1 (3), 42-47

Abstract : The cows of the 1st group (control) were gi-
ven clover aftercrop, syrup was added to the
ration of the cows of the 2nd group, the cows
of the 3rd group were fed clover aftercrop
(50 percent) with green corn (50 percent).

Card 1/2

stances; the utilization of nitrogen amounted
for the 1st group to 30.04 percent of assimi-
lated nitrogen and to 43.56 percent of dige-
sted nitrogen; correspondingly, it amounted
to 32.58 and 47.18 percent for the 2nd group.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825130003-9"

Card 2/2

AKHMEROV, A.Kh., kand.biol.nauk; BATENKO, A.I., kand.sel'skokhoz.nauk;
BRUDASTOVA, M.A., kand.tekhn.nauk; GOLOVINSKAYA, K.A., kand.biolog.
nauk; GORDON, L.M., kand.ekon.nauk; DOROKHOV, S.M., rybovod-biolog;
YEROKHINA, L.V., rybovod-biolog; IL'IN, V.M., rybovod-biolog;
ISAYEV, A.I., rybovod-biolog; KADZEVICH, G.V., rybovod-biolog;
KOMAROVA, I.V., kand.biol.nauk; KRYMOVA, R.V., rybovod-biolog;
KULAKOVA, A.M., rybovod-biolog; MAMONTOVA, L.N., kand.biol.nauk;
MEYSNER, Ye.V., kand.biol.nauk; MIKHEYEV, P.V., kand.biol.nauk;
MUKHINA, R.I., kand.biol.nauk; PAKHOMOV, S.P., kand.biol.nauk;
SUKHOVERKHOV, F.M., kand.biol.nauk; SOKOLOVA, Z.P., rybovod-bio-
log; TSIUNCHIK, R.I., rybovod-biolog; RYZHENKO, M.I., red.; KOSOVA,
O.N., red.; SOKOLOVA, L.A., tekhn.red.

[Handbook on pond fish culture] Spravochnik po prudovomu rybovodstvu.
Red.kollegiia: A.I.Isaev i dr. Moskva, Pishchepromizdat, 1959. 374 p.
(MIRA 13:4)

1. Moscow. Vserossiyskiy nauchno-issledovatel'skiy institut prudo-
vogo rybnogo khozyaystva.
(Fish culture)

S/183/60/000/004/007/014/XX
B004/B075

AUTHORS: Kotina, V. Ye., Bunareva, Z. S., Kosova, R. M.

TITLE: Water Method for Spinning Nitron Staple Fiber

PERIODICAL: Khimicheskiye volokna, 1960, No. 4, pp. 10-13

TEXT: In separating Nitron fibers diffusion processes take place which are influenced by the molecular weight and the steric factors of the precipitant. Especially water diffusion into the fiber loosens its structure and leads to a high water content in the fiber, thus reducing its quality. Therefore, the authors studied the effect of various precipitants, and the intensity of occlusion of the precipitants in polyacrylonitrile fiber. They precipitated a 15% solution of polyacrylonitrile in dimethyl formamide. The weight of the precipitate was determined and converted to the weight of the initial solution in %:

precipitant	precipitate in % of solution
water	98.4
glycol	58.6
synthetic alcohols	24.6
Card 1/4	

Water Method for Spinning Nitron Staple Fiber S/183/60/000/004/007/014/XX
H004/B075

precipitant	precipitate in % of solution
dichloroethane	87.5
dichloroethane and paraffin oil	61.8
polychlorides	72.2

Water is especially strongly absorbed by the fiber. The following results were obtained by adding dimethyl formamide to water:

precipitant	precipitate in % of solution
water	95.3
water and 20% dimethyl form- amide	77.0
water and 40% dimethyl form- amide	70.4
water and 60% dimethyl form- amide	64.5
water and 80% dimethyl form- amide	59.1

The fiber precipitated in water contains only 20% of fiber substance. This

Card 2/4

Water Method for Spinning Nitron Staple Fiber S/183/60/000/004/007/014/XK
BC04/B075

difficulty could be eliminated by using precipitants with high molecular weights and complex steric structures. Since, however, the Soviet Nitron staple fiber production is based on the use of water as precipitant, experiments were made at the authors' institute to improve the quality of the fiber by modifying the method. A precipitating bath with 50-60% dimethyl formamide was introduced and the temperature was lowered to 10-15°C. Furthermore, all relaxation processes were eliminated as long as the fiber contained an excessive amount of water. The fibers were washed with water of a maximum temperature of 40°C. After drying and oiling, the fiber was embossed by overheated vapor. Some batches of fibers were produced by this method: metric number 2600-3500, breaking length 26-32 km, elongation 17-28%. The quality of these fibers was much higher than that of fibers treated with hot baths causing relaxation. A knitting yarn No. 32/2 was produced by a doubling winding frame of the type TKM-8 (TKM-8) which was processed in the experimental workshop of the VNIITP (Scientific Research Institute of the Textile Industry) and the Ivanteyevskiy trikotazhnyy tekhnikum (Ivanteyevo Technicum for Tricot Manufacture). It was found that the quality of the products made from the fiber obtained by the modified method was much higher. There are 2 tables and 6 Soviet references. ✓

Card 3/4

Water Method for Spinning Nitron Staple Fiber S/183/60/000/004/007/014/XX
B004/B075 J

ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic
Fibers)

Card 4/4

KOSOVA, T.B. (Moskva)

Clothing design under factory conditions. Shvein.prom. no.4:15-
19 J1-Ag '61. (MIRA 14:12)

(Costume design)
(Clothing industry)

KOSOVA, V.; PARALOVA, M.

Content of essential oils in *Achillea millefolium* L. Cesk. farm.
3 no.7:228-231 Sept 54.

1. Z farmakognostického ustavu farmaceutické fakulty v Brně.
(PLANTS,
 Achillea millefolium essential oils in)
(OILS,
 volatile, in *Achillea millefolium*)

HAJKOVA, Irena, RNDr., PhMr. (Bratislava, Bakuninova 12); SOVOVA, Marie,
KOSOVA, Vera

Medicinal plants of Pouzdrany Hills. Acta pharmac 6:43-61 '62

1. Katheder fur Pharmakognosie der Pharmazeutischen Fakultat, Bratislava (for Hajkova).
2. Katheder fur pharmazeutische Botanik der Pharmazeutischen Fakultat, Bratislava (for Sovova).
3. Forschungsinstitut fur Futterstoffe der Tschechoslowakischen Akademie der landwirtschaftlichen Wissenschaften, Pohorelice (for Kosova).

KOSOVA, Vera

Pestovani a sber lecivych rostlin. (Cultivation and Collection of Medicinal Plants; a university textbook. 1st ed. bibl.) For the students of the Faculty of Pharmacy. Prague, SPN, 1957. 237 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 33. 24 Sept 57. p. 720.

CZECHOSLOVAKIA / Chemical Technology. Chemical Prod- H-17
ucts and Their Applications. Pharma-
ceuticals. Vitamins. Antibiotics.

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 9314.

Author : Chladek, M., Kosova, V.
Inst : Not given.
Title : A New Variety of *Chenopodium Ambrosioides* With
a High Content of Etheral Oils Which Possess
an Antihelminth Effect.

Orig Pub: *Pharmacia (Ceskosl.)*, 1957, 26, No 2, 55-60.

Abstract: Two varieties are compared: *Chenopodium ambro-*
sioides L. (A) native, and (B) one imported from
Italy and an antihelminth variety (*Ch. ambr. L.*
var. anthelminticum), now cultivated in Czechos-
lovakia. The etheral oil content (%) in medi-
cinal raw material of A and B is 1.47 and 2.23%

Card 1/2

120

CZECHOSLOVAKIA / Chemical Technology. Chemical Prod- H-17
ucts and Their Applications. Pharma-
ceuticals. Vitamins. Antibiotics.

Abs Four: Ref Zhur-Khimiya, No 3, 1959, 9314.

Abstract: respectively. The ascaridol content in EO (de-
termined iodometrically): 63.02% in A 60.43% in
B. The average dose is 0.1 ml (in 1 ml of castor
oil). -- E. Tukachinskaya.

Card 2/2

KOSOVA, V.; CHLADEK, M.

Generative hybridization of Stramonium and its importance in obtaining high quality drugs (folium stramonii). Cesk. farm. 11 no.5:234-238
Je '62.

1. Vyzkumny ustav krmivarsky CSAZV, Pohorelice a Vyzkumny ustav zelinarsky CSAZV, Olomouc.

(STRAMONIUM)

MANUKYAN, A.A.; GLUSHKOV, V.P.; SHVEDKOVA, V.M.; SVIRIDOVA, Z.P.; CHEBOTA-
REVA, Ye.A.; SHUMILIN, V.I.; PUDINA, K.V.; BRAGINA, N.M.; LUTSKAYA,
Ye.Ye.; KODACHENKO, A.S.; KOSOVA, V.A.; MOKLYARSKIY, B.I.; GRECHIKHIN,
A.A.; KULIKOV, N.I.; RYDVANOV, N.F.; BEL'CHUK, A.I.; VINTSER, Yu.I.;
ROZENTAL', Ye.I.; BELOUS, T.Ya.; SIDOROV, V.F.; ZHDANOVA, L.P.;
ALEKSANDROVSKAYA, L.I.; KOVAL', V.V.; KHAVINSON, Ya.S., glavnyy red.;
SOKOLOV, I.A., zam.glavnogo red.; ALEKSEYEV, A.M., red.; ARZUMANYAN,
A.A., red.; BELYAKOV, A.S., red.; BECHIN, A.I., red.; VARGA, Ye.S.,
red.; LEMIN, I.M., red.; LYUBIMOVA, V.V., red.; SKOROV, G.Ye., red.
V redaktirovani uchastvovali: SHAPIRO, A.I., red.; TATISHCHEV, S.I.;
KOVIRGINA, Ye., tekhn.red.

[Economic conditions of capitalistic countries: review of business
conditions for 1958 and the beginning of 1959] Ekonomicheskoe polo-
zhenie kapitalisticheskikh stran; kon'yunktturnyi obzor za 1958 g.
i nachalo 1959 g. Moskva, Izd-vo "Pravda," 1959. 127 p. (Prile-
zhenie k zhurnalu "Mirovaia ekonomika i mezhdunarodnye otnosheniia,"
no.8, avgust 1959 g.) (MIRA 12:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh
otnosheniy. 2. Kollektiv sotrudnikov kon'yunktturnogo sektora Insti-
tuta mirovoy ekonomiki i mezhdunarodnykh otnosheniy AN SSSR (for
Glushkov, Shvedkova, Sviridova, Chetotareva, Shumilin, Pudina, Bragina,
Lutskaya, Kodachenko, Kosova, Moklyarskiy, Grechikhin, Kulikov, Rydva-
nov, Bel'chuk, Vintser, Rozental', Belous, Sidorov, Zhdanova, Alek-
sandrovskaya, Koval'). (Economic conditions)

KOSOVA, V.A.

10255

S/065/62/000/006/001/007
E075/E136

5.3300
AUTHORS:

Denisenko, K.K., Badyshtova, K.M., Fikhaylov, I.A.,
Chesnokov, A.A., Burmistrov, G.G., and Kosova, V.A.

TITLE:

Ways of increasing the yield of high quality
residual oils from Eastern sulphurous crudes

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.6, 1962,
11-15

TEXT:

High quality brightstocks were obtained by adsorptional
refining of vacuum residues from high-sulphur Eastern crudes.
The adsorbent was a granulated catalyst and benzine was used as a
solvent. The moving bed process was described previously
(Trudy VNII NP, v.7, Gostoptekhnizdat, 1958, 93-103). The
extraction, even for phenol to oil ratio of 4.7 to 1, gave
raffinates with 0.81% coke values instead of the specified
0.45-0.65%. One promising refining treatment was the adsorptional
refining after phenol extraction. For phenol to oil ratio of 3:1
and adsorbent to oil ratio of 1.5:1, light raffinates were
obtained having the viscosity of 17.80-17.51 cs at 100 °C and
coke values 0.36-0.21%. Even better results were obtained using
Card 1/2

Ways of increasing the yield of ... S/065/62/000/006/001/007
E075/E136

only the adsorptional refining, with the adsorbent to oil ratio 3:1 and 3.5:1, which gave very light raffinates having the viscosity at 100 °C of 16.62-15.99 cs and 0.26-0.19% coke values. The latter method had an additional advantage in that it gave raffinates from which wax could be filtered 30-50% more rapidly than from the solvent raffinates of a less viscous deasphalted residue. Application of the adsorptional method to a deasphalted residue having a coke value of 1.15% gave brightstocks with coke values of 0.2-0.13%, colour 1.5 points, viscosity at 100 °C 20.13 to 18.38 cs, viscosity index of 85-95 and pour point of -20 °C. The yield of the oils was 15.6-13.6% of the vacuum residue compared with 12.5-11.2% obtained when the solvent extraction was used. The use of the adsorptional refining together with or without the solvent extraction obviates the use of clay treatment. There are 1 figure and 8 tables.

Card 2/2

DENISENKO, K.K.; BABYSHTOVA, K.M.; MIKHAYLOV, I.A.; CHESNOKOV, A.A.;
BURMISTROV, G.G.; KOSOVA, V.A.

Ways of increasing the output of high quality residual
oils from eastern sulfur-bearing crudes. Khim.i tekhn.topl.i
masel 7 no.6:11-15,72 Je '62. (MIRA 15:7)
(Petroleum--Refining)

MANUKYAN, A.A.; RYDVANOV, N.F.; BELOUS, T.Ya.; SVIRIDOVA, Z.P.; CHEBOTAREVA, Ye.A.; SHUMILIN, V.I.; PUDINA, K.V.; LUTSKAYA, Ye.Ye.; BRAGINA, N.M.; SANDAKOV, V.A.; MUSSO, S.; ZABLOTSKAYA, A.I.; VDOVICHENKO, D.I.; MIRKINA, I.Z.; MORENO, I.; SIDOROV, V.F.; FOKLYARSKIY, B.I.; GRECHIKHIN, A.A.; KOSOVA, V.A.; KULIKOV, N.I.; ZHDANOVA, L.P.; ROZENTAL', Ye.I.; PETRANOVICH, I.M.

[Economic conditions of capitalist countries; survey of economic trends in 1961 and the beginning of 1962] Ekonomicheskoe polozhenie kapitalisticheskikh stran; kon'iunkturnyi obzor za 1961 g. i nachalo 1962. g. Moskva, Izd-vo "Pravda," 1962. 157 p.
(MIRA 16:9)

1. Sotrudniki kon'iunkturnogo sektora Instituta mirovoy ekonomiki i mezhdunarodnykh otnosheniy AN SSSR.
(Economic history)

Kosova, V. V.

18(6) PHASE I BOOK EXPLOITATION SOV/3199
Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii
im. M. S. Kurnakova

Analiz blagorodnykh metallov (Analysis of Noble Metals) Moscow,
1959. 193 p. Errata slip inserted. 2,700 copies printed.

Resp. Ed.: M. K. Fehenteyn, USSR Academy of Sciences, Corre-
sponding Member; and N. A. Zvyagintsev, Doctor of Chemical
Sciences; Eds. of Publishing House: T. O. Levi, and D. N.
Trifonov; Tech. Ed.: I. N. Guseva.

PURPOSE: This collection of articles is for scientists engaged
in the study and analysis of the noble metals.

COVERAGE: This is a collection of articles on the analysis of the
noble metals. It includes studies carried out by the Institute
of General and Inorganic Chemistry im. M. S. Kurnakova (AN SSSR),
as well as reports presented by scientists of research organizations
and by industrial enterprises at the Third and Fourth Conference
on Noble Metals held in 1954 and 1957, respectively. The
studies and reports describe new organic reagents for gravi-
metric determination of platinum, palladium, and physicochemical
methods of analysis (spectrometric, polarographic and
potentiometric). Spectrometric determination is given to spectral
analysis for the determination of admixtures in alloys of
platinum with silver and gold, as well as in refined noble
metals. The collection also includes analytical methods, tables
and charts for materials containing metals of the platinum
group, as well as a review of the literature on the analysis
of platinum metals published in the last five years. No
personalities are mentioned. References follow each chapter.

Fehenteyn, M. K., I. A. Gladyshevskaya and L. M. Ryabkova.

Use of the Ion Exchange Method in the Analysis of Platinum
Metals. Report 2. Separation of Rhodium from Iridium 103

Anisimov, S. M., Ye. I. Nikitina and V. M. Alyanichikova.

Methods of Purifying from Industrial Solutions and Obtaining
Pure Concentrated Substances for the Determination of
Platinum Metals by Spectral Analysis 115

Khrapay, V. P. Spectral Method for the Determination of
Platinum, Palladium, and Tellurium in Silver-gold Alloys 128

Pankratova, M. I. and A. D. Gutikova. Spectral Method of
Analysis for Refined Iridium and Ruthenium 133

Kuranov, A. A., M. P. Ruzhka and M. M. Spiridova. Spectral
Determination of Admixtures in Gold, Silver and Alloys 139

Kuranov, A. A. Spectral Analysis of Platinum Alloys Con-
taining Three Components 143

Asakhorovskiy, A. P. and V. M. Karbolin. Determining the
Chemical Composition of Binary Alloys by the Thermoelectro-
motive Force 145

Avilov, V. B. Effect of Complexation and of the Acid-
Alkali Balance in the Medium on the Potential of the
 Au^{III}/Au^0 , Au^I/Au^0 , Au^{III}/Au^I , and Ag^I/Ag^0 Systems 150

Avilov, V. B. and V. V. Kosova. Chromatometric Determination
of Gold 156

Anisimov, S. M., V. M. Kurnenkov and V. P. Tarkhail.

Electrochromatic Method for the Determination of Silver in
Silver and Lead Alloys Containing Platinum Metals 163

Yuca, T. P. and M. A. Chentsova. Dissolving Platinum
Metals and Their Alloys with the Aid of an Alternating
Current 176

Chentsova, M. A., T. P. Yuca and V. O. Lavinskiy. New
Method for the Analysis of Palladium-silver Alloys 181

Ruzhnikov, M. S. and K. S. Sheina. Methods of Testing
Palladium Alloys and Their Products on a Touchstone
and by Chemical Means 184

KOSOVA, E.P.

Results in the use of sankafen in the tuberculous sanatorium for children. *Pediatrics*, Moskva No.1:47 Jan-Feb 51. (GLML 20:6)

1. Of the Tuberculosis Sector of the Belorussian Scientific-Research Institute for the Care of Mother and Children. 2. Used as a vermifuge.

KCSCVA, E. F.

*A simplified method of determining the 3rd blood fraction and its clinical use in children with tb (Russian text) PEDIATRIJA 1953, 1 (70) (IV, 7)

SO: EXCERPTA MEDICA, Sec. IV, Vol. 7, No. 10

KOSOVA, E. I.

KOSOVA, E. I. - "Third Fraction of Coagulation of Blood in Clinical Treatment of Tuberculosis (Micromethod)." Minsk State Med Inst, Minsk, 1955 (Dissertation for Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

ZUBETS, A.; KOSOVA, Ye.

Republic conference of tuberculosis specialists of the White Russian
S.S.R. Zdrav. Bel. 6 no.11:73-75 N '60. (MIRA 13:12)
(WHITE RUSSIA—TUBERCULOSIS)

KOSOVA, Ye.P., kand.med.nauk

Significance of graduated tuberculin tests in children. Zdrav.
Bel. 8 no.11:26-29 N '62. (MIRA 16:5)

1. Belorusskiy institut tuberkuleza (dir. - kand.med.nauk
M.N. Lomako), otdel detskogo legochnogo tuberkuleza (zav. -
T.V. Komar).

(TUBERCULIN--TESTING)

ROVINSKIY, A. Ye.; KOSOVA, Z. N.

Molecular balance for analysis of gases. Zav. lab. 28 no.12:
1529-1530 '62. (MIRA 16:1)

1. Vsesoyuznyy elektrotekhnicheskiy institut im. V. I. Lenina.

(Gases—Analysis)

GERTSOVSKIY, V.A.; PETROVSKIY, Yu.V.; Prinsipal'nyye uchastnye: KOSOVA, E.N.;
SMYLOVA, I.S.

Calculating the partial condensation of binary vapor mixtures in
a vertical countercurrent condenser. Khim. prom. no.5:357-359 By
'64. (MIRA 17:9)

L 32658-65 EWT(m)/EPF(c)/EPF(n)-2/EWP(t)/T/EPR/EWP

b) Pr-l/Ps-l/Pu-l

IJP(c) JD

ACCESSION NR: AP5005554

S/0080/65/03 /002/0328/0335

AUTHOR: Rovinskiy, A. Ye.; Fastovskiy, V. G.; Kobov, Z. N.

TITLE: Adsorption of rare gases¹ and their accompanying gases synthetic zeolites¹

SOURCE: Zhurnal prikladnoy khimii, v. 58, no. 2, 1965, 328-335

TOPIC TAGS: synthetic zeolite, rare gas, gas chromatography, gas adsorption, argon purification, adsorption isotherm, molecular sieve

ABSTRACT: The adsorption of helium, neon, argon, krypton, xenon, nitrogen, and oxygen was studied at temperatures corresponding to commercial conditions with synthetic zeolites and a technique and pilot apparatus were developed for separating argon-oxygen mixtures by a method originally proposed by Johnas (Am. Pat. 2810545; 10, 22, 1957). The study covered granulated type NaA and CaA zeolites from the Groznenskiy neftyanyy institut (Groznyy petroleum institute) and molecular sieve Linde 4A used originally for the oxygen-argon separation. A laboratory type adsorber was used for measuring the adsorption isotherms of pure gases and for the preliminary tests with argon-oxygen and argon-oxygen-nitrogen model mixtures, and a pilot adsorber permitting the alternate flow of gas through columns and the thermal regeneration of adsorbent was employed for the pilot tests. Adsorption of

Card 1/2

L 32658-65

ACCESSION NR: AP5005564

approximately 5-10% oxygen from its mixtures with argon at 90K on zeolite type NaA showed the possible purification of argon to a level of 0.004 vol% O₂. The purification decreased slightly with a reduction in contact time. Admixture of nitrogen suppressed the oxygen adsorption. Zeolite CaA was shown to be applicable for separating neon-helium mixtures at 78K, the adsorption of neon being higher and that of helium lower than on activated charcoal Ag-2. The technological advantages of separating argon-oxygen with the described apparatus are outlined. Orig. art. has: 8 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 04Feb63

ENGL: 00

SUB CODE: 1C

NO REF SOV: 004

OTHER: 006

Card 2/2

KOSOVAC, A.

Internal Clinic, Vet. Fac. Beograd

Vet Glasnik 6:36-40 Jan. 1952

KCSOURE, A.

- Belgrade, Acta Veterinaria, Vol 11, No 2, 1961
1. "Polypeptide Hydrolysis by Use of Micro-Enzymes"
J. ELIJEVIC, D. PAVLOVIC, A. PAVLOVIC, A. PAVLOVIC,
Institute for Chemistry and Institute of Microbiology
and Pathology, Belgrade; (English Summary)
pp 8-8.
 2. "Effect of Kemphal on the Thyroid"
M. PAVLOVIC, D. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC,
Institute for Chemistry and Institute of Microbiology
and Pathology, Belgrade; (English Summary)
pp 9-15.
 3. "Vaccination System of Liver in Gallus domesticus"
O. JAKOVIC, M. ALIC, M. ALIC, M. ALIC, M. ALIC,
Belgrade; pp 17-37.
 4. "Immunity of Chickens against Newcastle Disease by
Administering Vaccine in the Eye"
M. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC,
Institute for Chemistry and Institute of Microbiology
and Pathology, Belgrade; (English Summary) pp 39-58.
 5. "Bacteriological Content of Center Area of Eggs and
Shoulder-Cuts following Pasteurization at 65 C. for
30 Minutes"
J. PAVLOVIC, P. PAVLOVIC, Institute of
Meat Technology, Belgrade; pp 37-44.
 6. "Transmission of Viral Trichinosis of Pigs to the
Central Tissue of Cows and Sheep"
J. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC,
Obstetric Clinic; (English Summary) pp 45-50.
 7. "Effect of Excluding Venous Outflow of Ovary Under on
the Function of the Gland"
D. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC,
Institute for Chemistry and Institute of Microbiology
and Pathology, Belgrade; (English Summary) pp 51-58.
 8. "Effect of Ultrasonic and Some Antiseptics on Trichinosis"
M. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC, M. PAVLOVIC,
Institute of Parasitic Diseases; Belgrade; pp 59-60.
 9. "Survival of Trichinella in River and Lake Soils in
Serbia"
B.K. PAVLOVIC, Parasitology Institute, Veterinary

— 1/1 —

Belgrade, Acta Veterinaria, Vol. 11, No. 2, 1971 (continued)

Faculty, Belgrade pp 71-83

10. "Microbiological Changes in Abscess of Pig's S.O. Liver"
Pathological Institute, Veterinary Faculty, Belgrade pp 145-51

11. "Studies on Ecology, Pathology and Pathogenesis of 4 Pathogenic
Fungi Isolated from Domestic Animals in Yugoslavia"
as Pathological Institute, Faculty of Veterinary Medicine, Belgrade
Faculty of Veterinary Medicine, Belgrade pp 145-51
12. "Studies on Ecology, Pathology and Pathogenesis of 4 Pathogenic
Fungi Isolated from Domestic Animals in Yugoslavia"
as Pathological Institute, Faculty of Veterinary Medicine, Belgrade
Faculty of Veterinary Medicine, Belgrade pp 145-51
13. "Studies on Ecology, Pathology and Pathogenesis of 4 Pathogenic
Fungi Isolated from Domestic Animals in Yugoslavia"
as Pathological Institute, Faculty of Veterinary Medicine, Belgrade
Faculty of Veterinary Medicine, Belgrade pp 145-51

(30)

KOSOVAC, Vojislav, ing. (Novi Sad, Grobljanska 33)

Second International Congress of the Road Traffic Safety. Tehnika
Jug 17 no.1:157-162 Ja '62.

1. Sluzbenik Saobracajnog odseka Sekretarijata za unutrasnje poslove
APV, Novi Sad.

(Transportation, Automotive)

YUGOSLAVIA / Weeds and Weed Control

N

Abs Jour: Ref Zhur-Biol., 1958, No 17, 77960

Author : Kosovac, Zdravko

Inst : Not given

Title : Chemical Control of Weeds in Corn.

Orig Pub: Poljopr. Vojvod, 1957, 5, No 3, 37-44

Abstract: Before the appearance of corn shoots, 3 kg/ha of acid-equivalent 2M-4X, as well as 3-7 kg/ha of sodium pentachlorophenolate, is administered. After the appearance of the shoots, when the corn reaches 10 cm, 0.75-0.8 kg/ha 2M-4X or 2.4-D (acid equivalent) is administered. When the corn is 15-20 cm, CMU (Chlorophenyldimethylurea)

Card 1/2

KOSOVANOV, Nikolay Yvacheslavovich

N/E
611.6
.KN
1956

Mekhanizatsiya Ucheta Na Sudostroitel'nom Predpriyatii (mechanization of accounting in shipbuilding enterprises, by) N. V. Kosovanov i V. M. Yagrebtsy, izd. 2. Moskva, izd-vo "Rechnoy Transport", 1956.

126 P. Illus., Diagr., Tables.

ZINOV'YEV, B.S.; KAS'YANOV, A.F.; LAPSHIN, I.I.; SHARAFUTDINOV, M.;
LUZYANIN, D. Kh.; BRYUSHKOV, P.N.; SAVCHENKO, P. Ye.;
KOSOVER, S.I.; SHUL'MAN, I.Ye.; LAPSHIN, I.I.

Information. Veterinariia 38 no.8:91-96 Ag '61 (MIRA 18:1)

VASIL'KOV, G.V.; SPIROV, G.A.; DZHANOV, A.; SENNIKOV, M.I.;
SELYUCHENKO, A.; DEKANOV, I.; RAKHMATULLIN, M.G.; EYSMONT, V.V.;
KOSOVER, S.I.; TSUVERKALOV, D.A.; LESHKOV, B.G.

Information and brief news. Veterinariia 38 no.9:90-96
S '61. (MIRA 16:8)

KOSOVER, S.I.

Blood substitutes as effective therapeutic means. Veterinariia 41
no.4:70-71 Ap '65. (MIRA 18:6)

1. Direktor Volynskoy veterinarney polikliniki.

YAKOVLEV, Yu.; KOSOVETS, A. (Ozertso, Brestskoy obl.);
TOPIL'SKIY, V. (g. Shakhty, Rostovskoy obl.); DERNACHEV, B.
(Kinel', Kuybyshevskoy obl.); GRLOV, V. (Leningrad)

Readers' suggestions. Za rul. 21 no.2:25 F '63.
(MIRA 16:4)

(Motor vehicles—Technological innovations)

KOSOVETS, V.I.

KOSOVETS, V.I.

The "Incubation" method of preparing corn seed for sowing.
Biol.v shkole no.2:89-90 Mr-Apr '57. (MLRA 10:5)

1.Uchitel'nitsa shkoly no.102 goroda Kasani.
(Corn (Maize))

L 64659-65

ACCESSION NR: AP5023194

YU/0015/64/000/012/0438/0439

AUTHOR: Kosovic, Dushan (Doctor)

TITLE: Most frequent psychoneurotic affections of the Montenegro population

SOURCE: Medicinski glasnik, no. 12, 1964, 438-439

TOPIC TAGS: psychoneurotic disorder, psychology

ABSTRACT: The allegedly tremendous increase in psychoneurosis in Montenegro, attributed by the author to progressive urbanization and industrialization; most of the patients seen are males aged 30-35, usually with very low educational background. When these are seen by general practitioners, the latter usually are unable to handle them and often do more harm than good, leading to eventual chronicity and total invalidism with severe consequences for the patient and the family.

ASSOCIATION: none

Card 1/2

L 64659-65

ACCESSION NR: AP5023194

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 000

JPRS

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Card 2/2

CA

Kosovitch, N. L.

110

A field method for the determination of photosynthesis in assimilation flasks. L. A. Ivanov and N. L. Kosovich (Kirov Acad. Research Tech., Leningrad U.S.S.R.). *Botan. Zhur.* 31, No. 5, 3-12(1946); *Chem. Zentr.* 1947, I, 654; cf. preceding abstr. --The use of 3-4-liter flasks eliminates the need for a current of air. Results agree well with those obtained by the usual methods.
M. G. Moore

KOSOVICH, Vasilii Luk'yanovich; SMIRNOV, Viktor Sergeyevich,
retsensent; STEPUN, Aleksey Oskarovich, retsensent;
DOROKHIN, Nikolay Georgiyevich, otv. red.; LOMILINA, L.N.,
tekh. red.

[Basic technical and economic calculations on mining operations and mining systems] Osnovnye tekhniko-ekonomicheskie raschety po provedeniiu vyrabotok i sistemam razrabotki. Moskva, Izd-vo "Nedra," 1964. 154 p. (MIRA 17:3)

KOSOVICH, Vasilii Luk'yanovich; BOBROV, I.V., redaktor; GRICHAYENKO, M.I.,
redaktor; ALADOVA, Ye.I., tekhnicheskii redaktor.

[Aids for mining specialists, foremen, and miners working in seams
threatened by sudden discharges of coal and gas] Posobie dlia gor-
nykh masterov i brigadirov, rabetaiushchikh na plastakh, opasnykh po
vnezapnym vybrosam uglia i gaza. Moskva, Ugletekhnizdat, 1955. 82 p.
(Coal mines and mining--Safety measures) (MIRA 9:4)

KOSOVICH, V.L., gornyy inzhener.

Economic and technical advantage of mining horizons through rock headings. Ugol'31 no.12:16-20 D '56. (MLRA 10:2)

1. Voroshilovgradskiy gornyy tekhnikum.
(Donets Basin--Coal mines and mining)

KOSOVINC, I.

"Corrosion and protection against it" by Fritz Tödt. 2d ed.
Reviewed by I. Kosovinc. Rud met zbor no.1:48-49 '62.

KOSOVITSKIY, IA / I

AID P - 2565

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 4/16

Authors : Blokh, A. G. and Kosovitskiy, A. I., Kands. Tech. Sci.

Title : Absorption capacity of flow of pulverized coal particles
floating in the air

Periodical : Teploenergetika, 8, 23-26, Ag 1955

Abstract : The article gives a theoretical analysis of experiments
made on the absorption of heat radiations by particles
of the dust cloud. Six diagrams. Two Russian references,
1951-1955, 2 English, 1926-1928, 1 French, 1934.

Institution : Central Institute of Turbines and Boilers

Submitted : No date

KOSOVINC, I.

"Testing of materials with ultrasound" by Josef Krautkrämer and
Herbert Krautkrämer. Reviewed by I. Kosovinc. Rud met zbor
no.1:49-50 '62.

KOSOVINC, Ivan, inz.

Automatic radiography of As⁷⁶ in metallography. Distribution of arsenic in Pb-Sn-Sb stilling alloys. Rud met zbor no.2:141-150 '62.

1. Katedra za metalografijo, Oddelek za montanistiko Univerze v Ljubljani, Askerceva 20.

KOSOVINC, I.

"Surface phenomena in metals and alloys" by V.K. Semenchenko. Reviewed by I. Kosovinc. Rud met zbor no.2:167 '62.

KOSOVINC, I.

"Knowledge of metals" by Heinz Borchers. Vol. 1. Reviewed by I. Kosovinc.
Rud met zbor no.2:171-172 '62.

KOSOVINC, I.

"Extractive metallurgy of copper, nickel, and cobalt" by Paul Queneau.
Reviewed by I. Kosovinc. Rud met zbor no.2:183 '62.

KOSOVINC, I.

"Physics of solids and physics of luminescent materials. Conference of the Physical Society of the German Democratic Republic, held October 20-24, 1957 at Erfurt." Reviewed by I. Kosovinc. Rud met zbor no.2: 184 '62.

KOSOVINC, I.

"Handbook of thermophysical properties of solid materials" by Alexander Goldsmith, Thomas E. Waterman, and Harry J. Hirschborn. Vol. 1: "Elements (Melting temperature above 1000°F.)". Rev. ed. Reviewed by I. Kosovinc. Rud met zbor no.2:185 '62.

KOSOVINC, I.

"Response of metals to high-velocity deformation". Reviewed by
I. Kosovinc. Rud met zbor no.2:190 '62.

KOSOVINC, I.

"Magnetic measurement for the one- and two-phase separation of nitrogen in alpha iron in the process of aging." Reviewed by I. Kosovinc. Rud met zbor no.2:194 '62.

KOSOVINC, I.

"The brittle fracture story" by C.F. Tipper. Reviewed by I. Kosovinc.
Rud met zbor no.2:198 '62.

KOSOVINC, I.

"Introductory practical metallography" by A.R. Bailey and "The aluminum-copper-silicon system" by D.L. Thomas. Rud met zbor no.2:199-200 '62.

SIRCA, Franc, dr. inz., docent; KOSOVINC, Ivar, inz., asistent

Use of colored photography in heat etching of metals
and castings. Rud met zbor no.3:209-217 '62.

1. Katedra za metalografijo na oddelku za montanistiko
Univerze v Ljubljani, Askerceva 20, Ljubljana.

KOSOVINC, I.

"The First International Congress on Metallic Corrosion,
London April 10-15, 1961." Reviewed by I. Kosovino.
Rud met zbor no.3:273 '62.

KOSOVINC, I.

"Modern grinding and polishing" by Walter Burkart.
3d ed. Reviewed by I. Kosovinc. Rud met zbor no.3:275
'62.

KOSOVINC, I.

"Raw materials for nuclear engineering. Introduction to the bases and problems of raw materials for ~~nuclear~~ reactors" by Willfried Epprecht. Reviewed by I. Kosovinc. Rud met zbor no.3:280 '62.

KOSOVINC, I.

"Corrosion 14." Reviewed by I. Kosovinc. Rud met zbor
no.3:285 '62.

KOSOVINC, I.

"Mechanical metallurgy" by George E. Dieter. Reviewed by
I. Kosovinc. Rud met zbor no.3:293 '62.

KOSOVINC, I.

"Structure of the iron-coal system" by K. Klemm. 2d ed.
Reviewed by I. Kosovinc. Rud met zbor no.3:302 '62.

KOSOVINC, J.

Physics of the solids. The conference of the Lőránd Eötvös Society of Physics held in cooperation with the Physical Society of the German Democratic Republic September 14-20, 1959 at Balatonfüred. Rud met zbor no.2:174 '62.

B/191/63/000/003/008/0222
B101/B186

AUTHORS: Fadeyeva, A. V., Lel'chuk, Sh. L., Shcherbak, P. M.
Kurzhankova, M. S., Sargun'ko, A. M., Kisevova, Z. P.

TITLE: Method of eliminating the electrification of polyethylene
films during their production

PERIODICAL: Plasticheskiye massy, no. 3, 1963, 27 - 30

TEXT: The effect of alcohols on the electrostatic charge forming on high-density polyethylene (HDPE) was studied. Alcohols were obtained by oxo-synthesis of unsaturated products of petroleum cracking. Oxyethylated alcohols had the general composition C_nE_m , where C_n is the initial alcohol with n C atoms, and E_m is the number of ethylene oxide moles per alcohol mole. The effect of the following substances was tested: $C_8E_{3.06}$, $C_{12}E_{4.2}$, $C_{12-16}E_{3.28}$, $C_{12-16}E_{3.08}$, $C_{16}E_{3.3}$, C_8E_7 , $C_{12}E_{6.4}$, $C_{12-16}E_{6.3}$, $C_{16}E_{6.0}$ added to HDPE at 120°C during rolling. The effect was determined by measuring the resistivity ρ_1 to the loss of charge by discharging a
Card 1/3

8/191/63/000/003/008/022
B101/B186

Method of eliminating the ...

capacitor. The equation $\rho_1 = k\tau(\log v_0 - \log v)\epsilon$ was used for calculating ρ_1 ; $k = 4.9128 \cdot 10^{13}$; τ - duration of charged state (sec); v_0 - initial voltage of sample; v - voltage after 5 min; ϵ - dielectric constant at 10^3 cps. For an HDPE film without additive, ρ_1 was $\sim 2.6 \cdot 10^{18}$ ohm-cm. Results: On addition of 0.2%, all C_{nm} reduced ρ_1 to $\sim 10^{15}-10^{16}$ ohm-cm. On addition of 0.5%, $C_8E_{3.06}$, $C_8E_{7.0}$, $C_{12}E_{4.0}$, $C_{12-16}E_{3.08}$, $C_{12-16}E_{3.0}$ and $C_{16}E_{3.3}$ reduced ρ_1 to $\sim 10^{15}$, whereas with $C_{12}E_{6.4}$, $C_{12-16}E_{6.27}$, $C_{12-16}E_{6.3}$ and $C_{16}E_{6.0}$ total loss of charge occurred. Products with a long carbon chain and high content of ethoxy groups gave the best effect. An addition of >0.2 C_{nm} causes migration of the oxyethylated alcohol to the film surface, thus increasing $\tan \delta$ from $0.0008 \cdot 10^{-6}$ to $0.002 \cdot 10^{-6}$. $C_{10-11}E_{3.1}$, $C_{12-16}E_{2.9}$, $C_{16-18}E_{3.6}$, $C_{17-18}E_{3.4}$, $C_{10-11}E_{6.01}$, $C_{12-16}E_{6.6}$, $C_{16-18}E_{6.5}$ and $C_{17-18}E_{6.6}$ were also tested. They had been obtained by oxyethylation

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B101/B186

Method of eliminating the ...

of alcohols synthesized by hydrogenation of fatty acids. An addition of 1% of these substances caused complete loss of charge. Efficiency increased with E_m , total loss thus occurring already at 0.5%. The experimental results were confirmed in industry. There are 2 figures and 3 tables.

Card 3/3

L 15466-65 EPP(c)/EWG(j)/EWA(h)/EWP(j)/EWT(m)/T/ZA(1) PC-L/Pr-L/Peb RM

ACCESSION NR: AP5009318

S/0191/65/000/004/0036/0038

AUTHORS: Melikhova, N. A.; Kosovova, Z. P.; Kotovshchikova, O. A.; Reytlinger, S.A.

TITLE: The effect of aging and surface treatment upon the weldability of polyethylene films

SOURCE: Plasticheskiye massy, no. 4, 1965, 36-38

TOPIC TAGS: polymer property, polymer film, polyethylene, weld, weld shear strength

ABSTRACT: The effects of oxidation processes occurring in polyethylene under solar radiation, raised temperature, gamma radiation, and with surface treatment by oxidizing substances were studied. The purpose of the investigations was to determine the effect of these factors upon the weldability of polyethylene films. The films were prepared by an extrusion process and welded using the NIAT device reported by Yu. M. Kolobkov, O. A. Kotovshchikova, and S. N. Matsyuk (Sb. "Primeneniye polymernykh materialov v mashinostroyenii," Mashgiz, 1962, 269). The effect of solar radiation upon the films is shown in Fig. 1 on the Enclosure. The authors recommend storing the films in a dark place prior to exposing them to solar radiation in order to prevent premature structural changes from incident radiation. The strength of welded seams exposed to gamma radiation, high temperatures, and

Card 1/17

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oxidizing agents is shown in Figs. 2, 3, and 4 on the Enclosure. A Co⁶⁰ source was used to produce gamma rays. The heat-tested films were held at 1000 for varying lengths of time. The oxidizing agents were chromic acid, chlorine, ozone, and nitric acid. A small electrical discharge was also used in the oxidation tests. It was noted that the formation of an oxidized polyethylene layer nearly always prohibits the formation of a weld. Orig. art. has: 4 figures.

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POLOZ, K.; KOSOVSKAYA, A.; tekhnik; VENGEROV, A.; SHEUDITIS, B.;
KAZLAUSKAS, V., prepodavatel'; ATKOCHAYTIS, Ye. [Atkocaitis, E.],
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1. Zamestitel' nachal'nika proizvodstvenno-tekhnicheskogo
otdeleniya steklotarnogo zavoda, g.Kerch' (for Poloz).
2. Make-
yevskiy koksokhimicheskiy zavod, g.Makeyevka (for Kosovskaya).
3. Predsedatel' revizionnoy komissii soveta Vsesoyuznogo obsh-
chestva izobretateley i ratsionalizatorov Zyryanovskogo svint-
sovogo kombinata, Vostochno-Kazakhstanakaya obl. (for VengeroV).
4. Chlen Litovskogo respublikanskogo soveta Vsesoyuznogo ob-
shchestva izobretateley i ratsionalizatorov (for Sheuditis).
5. Vecherniy institut tekhnicheskogo tvorchestva, g.Kaunas (for
Kazlauskas).
6. Vil'nyusskiy molochnyy kombinat (for Atkochaytis).
7. Sekretar' rayonnogo soveta Vsesoyuznogo obshchestva izobretateley
i ratsionalizatorov Kiyevskogo otdeleniya Yugo-Zapadnoy zheleznoy
dorogi, (for Suprunenko).
8. Oblastnoy sovet Vsesoyuznogo ob-
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9. Sekretar' krayevogo soveta Vsesoyuznogo obshchestva izobretateley
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